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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	ATTORNEY DOCKET NO. CONFIRMATION NO.	
10/785,628	02/24/2004	Xiong Liu	STL11426 2953		
7	590 07/26/2006		EXAM	INER	
David K. Lucente		NEGRON, I	NEGRON, DANIELL L		
Seagate Technology LLC Intellectual Property-COL2LGL		ART UNIT	PAPER NUMBER		
389 Disc Drive			2627		
Longmont, CO 80503			DATE MAILED: 07/26/2006	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Appi	ication No.	Applicant(s)	
		10/7	85,628	LIU ET AL.	
Off	fice Action Summary	Exam	niner	Art Unit	
			ell L. Negrón	2627	
The I Period for Repl	MAILING DATE of this commun	nication appears o	n the cover sheet with the d	correspondence addr	ess
WHICHEVE - Extensions of t after SIX (6) M - If NO period fo - Failure to reply Any reply recei	NED STATUTORY PERIOD F R IS LONGER, FROM THE M ime may be available under the provisions ONTHS from the mailing date of this com r reply is specified above, the maximum s within the set or extended period for reply ved by the Office later than three months term adjustment. See 37 CFR 1.704(b).	MAILING DATE Of s of 37 CFR 1.136(a). In munication. tatutory period will apply a y will, by statute, cause the	F THIS COMMUNICATION no event, however, may a reply be tire and will expire SIX (6) MONTHS from the application to become ABANDONE	N. nely filed the mailing date of this comr D (35 U.S.C. § 133).	
Status					
2a)☐ This a 3)☐ Since	nsive to communication(s) file ction is FINAL . this application is in condition in accordance with the pract	2b)⊠ This action for allowance ex	is non-final. cept for formal matters, pro		nerits is
Disposition of (Claims				
4a) Of 5)⊠ Claim(6)⊠ Claim(7)⊠ Claim(8)□ Claim(are withdrawn from wed. ction and/or electi	n consideration.		
10) The dra Applica Replace	ecification is objected to by the awing(s) filed on is/are ant may not request that any objected to declaration is objected to the awing sheet is objected to be awing sheet in the awing sheet is objected to be awing sheet in the awing sheet in the awing sheet is objected to be awing sheet in the awing sheet is objected to be awing sheet in the awing sheet in the awing sheet is objected to be awing sheet in the awing sheet in the awing sheet is objected to be awing sheet in the awing sheet in the awing sheet in the awing sheet is objected to be awing sheet in the awing sheet in the awing sheet in the awing sheet is objected to be awing sheet in the awing shee	: a) ☐ accepted of ection to the drawing g the correction is re	n(s) be held in abeyance. Sec equired if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR	
Priority under 3	5 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
2) ☐ Notice of Draft 3) ☑ Information Di	rences Cited (PTO-892) sperson's Patent Drawing Review (F sclosure Statement(s) (PTO-1449 or ail Date		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate	52)

DETAILED ACTION

Request for Continued Examination

Examiner acknowledges the request for continued examination (RCE) filed on May 18,
 2006.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on May 18, 2006 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement has been considered by the examiner.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 18-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Siew et al U.S. Patent Application Publication No. 2002/0027729.

Regarding claim 18, Siew et al disclose a method comprising steps of comparing a track profile (i.e., PES) for a first track to a predetermined threshold (300), and determining a head positioning profile (i.e., ZAP) for the first track in relation to the track profile for the first track in response to the comparison (paragraph 34).

Regarding claims 19 and 20, Siew et al disclose a method wherein the head positioning profile of the determining step is further determined in relation to a track profile for a second track and third track (i.e., all tracks, see paragraph 38).

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Allowable Subject Matter

5. Claim 21 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Regarding claim 21, prior art fails to disclose or suggest a method comprising the steps of claims 18-20, wherein a track profile is represented by WI, the first track is represented by n, the second track is represented by n-1, and the third track is represented by n+1, the head positioning profile is represented by ZAP(n), and wherein $ZAP(n) = -WI(n) - alpha * {WI(n-1) + WI(n+1)}$, wherein alpha is a value between 0 and 1.

6. Claims 1-12 and 14-16 are allowed.

Regarding claims 1-5, and 14, claim 1 discloses a method comprising sequential steps of comparing a track profile for a first track to a predetermined threshold, and determining, in relation to the comparison, a head positioning profile for the first track in relation to a track profile for the first track and a track profile for a second track, which is neither disclosed or an obvious variation of the prior art.

Regarding claims 6-10, 15, and 16, claim 6 discloses a method for compensating for positioning errors in a data storage device comprising a step of determining a head positioning profile for a first track in relation to a track profile for the first track in combination with a track profile for a second track and a non-zero weighting value, which is neither disclosed or an obvious variation of the prior art.

Regarding claims 11, 12, and 17, reasons for allowance are as discussed in the previous Office action mailed January 18, 2006.

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Response to Arguments

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7. Applicant's arguments, see pages 10-12, filed May 18, 2006, with respect to claims 1-10 and 14-16 have been fully considered and are persuasive. The rejection of the claims has been withdrawn.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniell L. Negrón whose telephone number is 571-272-7559. The examiner can normally be reached on Monday-Friday (8:30am-5:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wayne R. Young can be reached on 571-272-7582. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

July 18, 2006